

3.3 Solving Multistep Equations

STEPS

- ① ~~ADD~~ COMBINE LIKE TERMS
- ② MOVE THE VARIABLES TO ONE SIDE
- ③ MOVE THE NUMBERS TO SIDE W/OUT VARIABLES
- ④ ~~ADD OR SUBTRACT~~ MOVE THE COEFFICIENTS BY \times OR \div

Ex 1 $3x - 1 = 8$

$$\begin{array}{r|l} +1 & +1 \\ \hline 3x & = 9 \\ \hline 3 & 3 \\ \hline \boxed{x=3} \end{array}$$

Homework

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#16-40 EVEN

51, 52

Ex 2 $\frac{x}{2} + 13 = 20$

$$\begin{array}{r|l} -13 & -13 \\ \hline (2) \frac{x}{2} & = 7 (2) \\ \hline \boxed{x=14} \end{array}$$

Ex 3 $(x) + (5x) - 5 = 1$

$$\begin{array}{r|l} 6x - 5 & = 1 \\ +5 & +5 \\ \hline 6x & = 6 \\ \hline 6 & 6 \\ \hline \boxed{x=1} \end{array}$$

Ex 4 $17 = 2(3x + 1) - x$

$$17 = \boxed{6x} + \boxed{2} - x$$

$$\begin{array}{r|l} 17 & = 5x + 2 \\ -2 & -2 \end{array}$$

$$\begin{array}{r|l} 15 & = 5x \\ 5 & 5 \end{array} \quad \boxed{x=3}$$